

WHAT IS CLAIMED IS:

1. A solar cell having a silver paste electrode coated with lead-free solder, wherein said silver paste electrode is formed by firing silver paste, and powdery glass included in said silver paste has an average grain size of 11 μm at most.

2. A solar cell having a silver paste electrode coated with lead-free solder, wherein said silver paste electrode is formed by firing silver paste, and an amount of powdery glass included in said silver paste is 2.8 to 10.0 mass %.

3. A solar cell having a silver paste electrode coated with lead-free solder, wherein said silver paste electrode after firing has an average thickness of at least 15 μm .

5 4. A fabrication method of a solar cell comprising the steps of printing silver paste at a partial region at a light receiving side of an anti-reflection film and at a partial region at a back side of a p type silicon substrate, firing said silver paste to form a silver paste electrode, and coating said silver paste electrode with lead-free solder, wherein powdery glass sifted through a sieve having an opening diameter of 73 μm at most is used as said powdery glass included in said silver paste.

5 5. A fabrication method of a solar cell comprising the steps of printing silver paste at a partial region at a light receiving side of an anti-reflection film and at a partial region at a back side of a p type silicon substrate, firing said silver paste to form a silver paste electrode, and coating said silver paste electrode with lead-free solder, wherein the step of printing silver paste includes applying silver paste at least two times.

6. A fabrication method of a solar cell comprising the steps of printing silver paste at a partial region at a light receiving side of an anti-

5 reflection film and at a partial region at a back side of a p type silicon substrate, firing said silver paste to form a silver paste electrode, and coating said silver paste electrode with lead-free solder, wherein the step of printing silver paste includes applying silver paste using a mask having a thickness of three times a wire diameter.

7. An interconnector for a solar cell, said interconnector coated with lead-free solder, and said interconnector connected to a silver paste electrode of a solar cell by lead-free solder.

5 8. A solar cell string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said paste electrode is formed by firing silver paste, and powdery glass included in said silver paste has an average grain size of 11 μm at most.

5 9. A solar cell module incorporated with a string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said paste electrode is formed by firing silver paste, and powdery glass included in said silver paste has an average grain size of 11 μm at most .

5 10. A solar cell module incorporated with a string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said paste electrode is formed by firing silver paste, and an amount of powdery glass included in said silver paste is 2.8 to 10.0 mass %.

11. A solar cell module incorporated with a string interconnecting a solar cell having a silver paste electrode coated with lead-free solder with an interconnector for a solar cell, wherein said silver paste electrode after firing has an average thickness of at least 15 μm .